

E2E-X7D2-M1GJ 0.3M



Ratings/Performance

Sensing head size	M18
Type	Cylinder type (with screw), Shielded
Power source	DC 2-wire models
Sensing distance	7 mm $\pm$ 10%
Setting distance	0 to 5.6 mm
Differential distance	10% max. of sensing distance
Sensing object	Ferrous metal (Sensitivity lowers with non-ferrous metals.)
Standard sensing object	Iron 18 x 18 x 1 mm
Response frequency	500 Hz
Power supply voltage	10 to 30 VDC ripple (p-p) 10% included
Leakage current	0.8 mA max.
Control output (Switching capacity)	3 to 100 mA
Control output (Residual voltage)	3 V max. (Load current 100 mA with cable length of 2 m)
Indicator	Operation indicator (orange)
Operation mode	NC
Polarity	Polarity
Protective circuit	Output short-cut protection Surge suppressor
Ambient temperature (Operating)	-25 to 70 °C (with no freezing or condensation)
Ambient temperature (Storage)	-40 to 85 °C (with no freezing or condensation)
Ambient humidity (Operating)	35 to 95 % (with no condensation)
Ambient humidity (Storage)	35 to 95 % (with no condensation)
Temperature influence	$\pm$ 10% max. of sensing distance at 23 °C in the temperature range of -25 to 70 °C
Voltage influence	$\pm$ 1% max. of sensing distance at rated voltage in the rated voltage $\pm$ 15% range
Insulation resistance	Between charged parts and the case: 50 M Ω min. at 500 VDC
Dielectric strength	Between charged parts and the case: 1,000 VAC 50/60 Hz 1 min

Vibration resistance	Destruction: 10 to 55 Hz, 1.5 mm double amplitude each in X, Y, and Z directions for 2 h
Shock resistance	Destruction: 1000 m/s ² 10 times each in X, Y, and Z directions
Degree of protection	IEC: IP67 Company standard: Passed OMRON's Oil-resistant Component Evaluation Standards IP67G (JIS C 0920 Annex 1) IP69K (ISO 20653 (old standard: DIN 40050 PART9))
Connection method	M12 Pre-wired Standard Connector Models (IEC pin arrangement) (0.3 m)
Material	Case: Brass nickel plating Sensing surface: Polybutylene terephthalate (PBT) Clamping nuts: Brass nickel plating Toothed washers: Iron zinc plating Cable: PVC
Accessories	Instruction manual, Clamping nuts, Toothed washers